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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,771	07/17/2003		John Louis Janning	J5460.0009/P009-A	9160	
24998	7590	09/05/2006		EXAM	EXAMINER:	
DICKSTE			LEE, GUI	LEE, GUIYOUNG		
Washington				ART UNIT	PAPER NUMBER	
			2875			
				DATE MAILED: 09/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/620,771	JANNING, JOHN LOUIS					
Office Action Summary	Examiner	Art Unit					
	Guiyoung Lee	2875					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a)). In no event, however, may a reply be tirrill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 06 Ju	ne 2006						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
_							
 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 							
5) Claim(s) is/are allowed.							
7) Claim(s) is/are rejected.	6) Claim(s) 1-4 is/are rejected.						
• • • • • • • • • • • • • • • • • • • •	election requirement						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Prelim./Amdt.

1. Receipt is acknowledged of the Response filed 06/06/2006.

2. Claims 1-4 are pending, and independent claim 1 has been amended.

Response to Arguments

3. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

In response to Applicant's argument that the reference to Harris does not teach a semiconductor shunt, a newly found reference to Sawka et al. (US 4,450,382) discloses a Zener diode as a semiconductor shunt being used for the series-wired light bulbs.

In response to applicant's argument that Wu reference does not disclose that the rectifier is used in the series-wired light string, a newly found reference to Kramer (3,789,211) discloses a half-wave rectifier being used for the series-wired light string. Further, a bridge rectifier for full wave rectification is known at the time of the invention, and Ray discloses the bridge rectifier.

The new ground of rejection follows.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harris (US 5,453,664) in view of Sawka (US 5,345,147), further in view of Kramer (US 3,789,211).

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Re claims 1-2 and 4: Harris discloses a series-wired light string that operates comprising 5. a plurality of light bulbs (12 in Fig. 1), a plurality of light sockets (16), each light socket of said plurality of light sockets adapted to receive at least one light bulb (124) of said plurality of light bulbs, a plurality of voltage-responsive shunts (140 and 142), each shunt being electrically connected in parallel across a respective light socket to maintain the current passing through the light socket in the event that a light bulb is not illuminated or is missing from the light socket (col. 4, lines 24+), and a power source. Harris does not disclose a rectifier for rectifying an AC supply voltage for DC operation of the series wired light string. Kramer shows a single diode rectifier (Fig. 1), which is a half-wave rectifier, for rectifying an AC supply voltage for DC operation of the series-wired light string (Fig. 4). It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ Kramer's single diode rectifier into Harris' light string in order to rectify AC supply voltage to DC supply voltage because of the advantage that the single diode rectifier can control intensity of the lamp road conveniently. Further, Harris does not teach that the voltage-responsive shunt is a single Zener diode shunt. However, Sawka shows a Zener diode (32) as a voltage-responsive shunt being used in the series-wired light string (See light bulbs L1 and L9 in Fig. 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute Sawka's Zener diode with Harris' voltage-responsive shunt because of the advantage that the Zener diode is self-cooled, thus avoiding need for a heat sink or auxiliary cooling system.

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6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harris and Sawka in view of Kramer as applied to claim 1 above, and further in view of Ray (US 4,211,955).

7. Re claim 3: Kramer does disclose a single diode rectifier. Kramer does not disclose a bridge rectifier. However, the bridge rectifier was known at the time the invention was made, and Ray discloses a bridge rectifier (26 in Fig. 6). It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute Kramer's half-wave rectifier with Ray's bridge rectifier because of the advantage that the bridge rectifier can maintain the same polarity of output voltage for any polarity of the input voltage.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guiyoung Lee whose telephone number is 571-272-2374. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LGY

Sent a O'Shea
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